

Curriculum vitæ and list of publications

Tuomas Lappi

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Born October 25th 1978 in Suonenjoki, Finland.

Studies

- Graduated from Suonenjoki high school in May 1997.
- Studies of theoretical physics, mathematics, computer science and physics at the University of Helsinki 1997 – 2001.
- Studies of theoretical physics at the Ecole Normale Supérieure, Paris, France, 1999 – 2000.
- MSc at the university of Helsinki, September 2001. Master's thesis on "Classical fields in relativistic heavy ion collisions", advisor prof. Keijo Kajantie, accepted August 28th 2001.
- Postgraduate studies in theoretical physics at the University of Helsinki, 2001 – 2005.
- PhD thesis "Classical chromodynamics and heavy ion collisions," accepted January 2005, opponent Dr. J.-P. Blaizot, custos prof. K. Kajantie.

Work experience

- Research Assistant (computational condensed matter physics), Physics laboratory of the Helsinki University of Technology, summer 1999.
- Teaching assistant (exercises in Quantum Mechanics, Statistical Physics and Many Body Physics) at the Theoretical Physics Division 2000–2002.
- Research assistant at the Helsinki Institute of Physics, spring 2002.
- Scholarships for graduate studies from the Finnish Cultural Foundation (2002, 2003 and 2004) and the Magnus Ehrnrooth Foundation (2003).
- Research Associate at the Physics Department of Brookhaven National Laboratory, Nuclear Theory Group, starting October 2005.

Other

- Student vice-representative in the Board of the Department of Physical Sciences, 2001–2003.
- Various activities at the Nation of Savo (organisation of students from the province of Savo) of the University of Helsinki, including Treasurer 2001–2002.
- Member of the Representative Council of the Student Union of the University of Helsinki, 2002–2003.

Publications in refereed journals

1. T. Lappi, “Production of gluons in the classical field model for heavy ion collisions,” *Phys. Rev. C* **67** (2003) 054903 [arXiv:hep-ph/0303076].
2. T. Lappi, “Rapidity distribution of gluons in the classical field model for heavy ion collisions,” *Phys. Rev. C* **70** (2004) 054905 [arXiv:hep-ph/0409328].
3. F. Gelis, K. Kajantie and T. Lappi, “Quark antiquark production from classical fields in heavy ion collisions: 1+1 dimensions,” *Phys. Rev. C* **71** (2005) 024904 [arXiv:hep-ph/0409058].
4. F. Gelis, K. Kajantie and T. Lappi, “Chemical thermalization in relativistic heavy ion collisions,” arXiv:hep-ph/0508229, accepted for publication in *Phys. Rev. Lett.*

Conference publications

1. T. Lappi, “Classical fields and heavy ion collisions,” invited talk at the “Strong and Electroweak Matter 2004” conference, Helsinki 2004, arXiv:hep-ph/0409087.
2. F. Gelis, K. Kajantie and T. Lappi, “Quark-antiquark production from classical fields and chemical equilibration,” talk at Quark Matter 2005, Budapest, Hungary, 4-9 Aug 2005, arXiv:hep-ph/0509343.
3. F. Gelis, K. Kajantie and T. Lappi, “Production of quark pairs from classical gluon fields,” talk at the Quark Gluon Plasma Thermalization workshop, Vienna, Austria, 10-12 Aug 2005, arXiv:hep-ph/0509363.
4. F. Gelis, K. Kajantie and T. Lappi, “Quark pair production from classical fields in heavy ion collisions,” talk at Particles and Nuclei International Conference (PANIC05), Santa Fe, NM, 24-28 Oct 2005.

Talks

- May 2002, University of Jyväskylä, Department of Physics: “Classical Chromodynamics Simulations of Relativistic Heavy-Ion Collisions.”
- October 2002, ECT*, Trento, Italy: “Coherent Effects at RHIC and LHC: Initial Conditions and Hard Probes”–workshop: “Numerical Consequences of the McLerran-Venugopalan Model.”
- March 2003, University of Helsinki, High energy physics phenomenology seminar: “Classical fields in heavy ion collisions.”

- April 2003, University of Jyväskylä, Department of Physics: “Classical fields in heavy ion collisions.”
- June 2003, ECT*, Trento, Italy: “Color Glass Condensate and Parton Percolation”–workshop: “Classical field simulations of heavy ion collisions.”
- October 2003, CEA/Saclay, Paris, France: “Particle production in the classical field model for heavy ion collisions.”
- February 2004, University of Helsinki, High energy physics phenomenology seminar: “News from Quark Matter 2004.”
- June 2004, Helsinki, Strong and Electroweak Matter (SEWM 2005) conference, invited talk: “Classical fields and heavy ion collisions.”
- October 2004, University of Helsinki, High energy physics phenomenology seminar: “Saturation in deep inelastic scattering.”
- January 2005, Duke University, Durham, NC; Ohio State University, Columbus, OH and Brookhaven National Laboratory, Upton, NY: talk on “Particle production in the classical field model for heavy ion collisions.”
- May 2005, University of Jyväskylä, talk on “Quark antiquark pair production in the classical field model.”
- August 2005, Quark Matter (QM 2005), Budapest, Hungary, contributed talk on “Quark-antiquark production from classical fields and chemical equilibration.”
- August 2005, Quark Gluon Plasma Thermalization workshop, Vienna, Austria, talk on “Production of quark pairs from classical gluon fields.”
- October 2005, Particles and Nuclei International Conference (PANIC05), Santa Fe, NM, talk on “Quark-antiquark production from classical fields and chemical equilibration.”

Other conference participation

- August 2001, “QCD perspectives on hot and dense matter,” Cargèse, Corsica, France.
- August 2001, “Quantum Field Theory in Particle and Condensed Matter Physics,” Hillerød, Denmark.
- January 2002, “17th Nordic Particle Physics Meeting,” Spåtind, Norway.
- July 2002, “Quark Matter 2002,” Nantes, France.
- October 2002, “Strong and Electroweak Matter 2002,” Heidelberg, Germany.
- January 2003, “3rd Nordic Winter School on Particle Physics and Cosmology,” Gausdal, Norway.
- September 2003, “Quantum fields in and out of equilibrium,” Bielefeld, Germany.
- January 2004, Quark Matter (QM 2004), Oakland, CA. Poster on “Particle production in the classical field model for relativistic heavy-ion collisions.”